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FILE: METHODS AND APPARATUS RELATING TO
SINGULATING SEMICONDUCTOR WAFERS AND WAFER SCALE
ASSEMBLIES

Inventor: Salman Akram
Serial No.: Not Yet Assigned
Docket No.: 2269-5527US

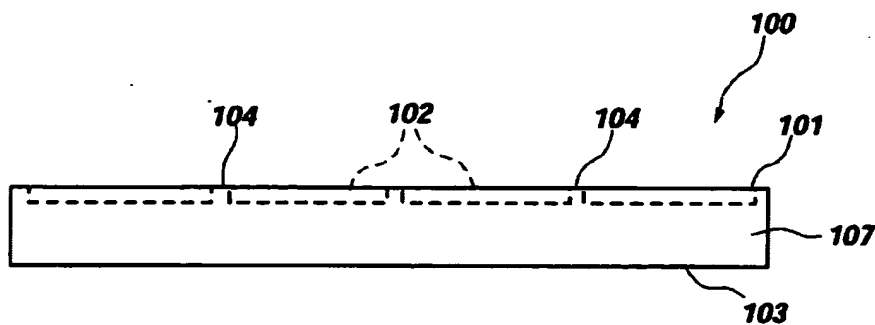


FIG. 1

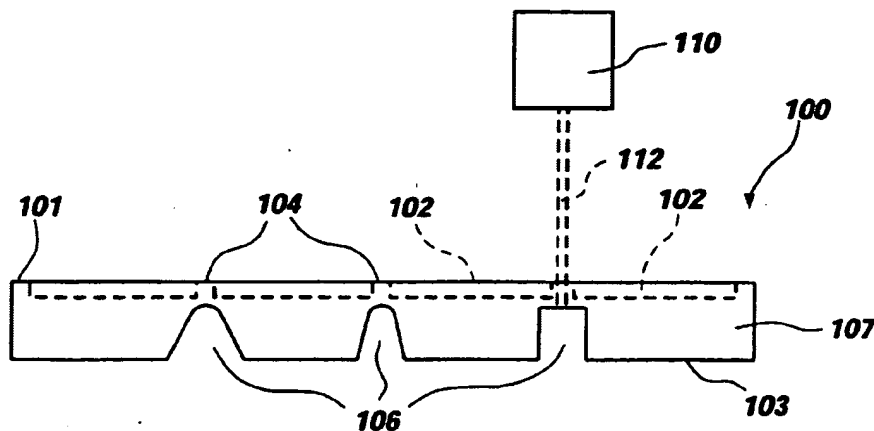


FIG. 2

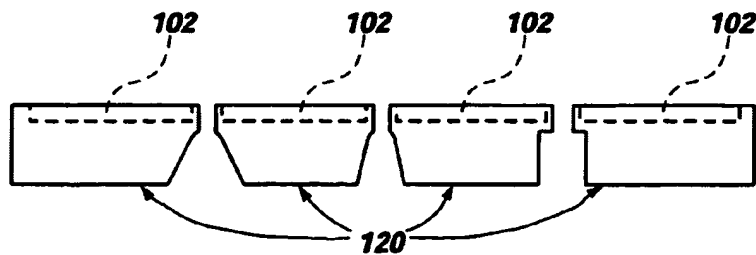


FIG. 3

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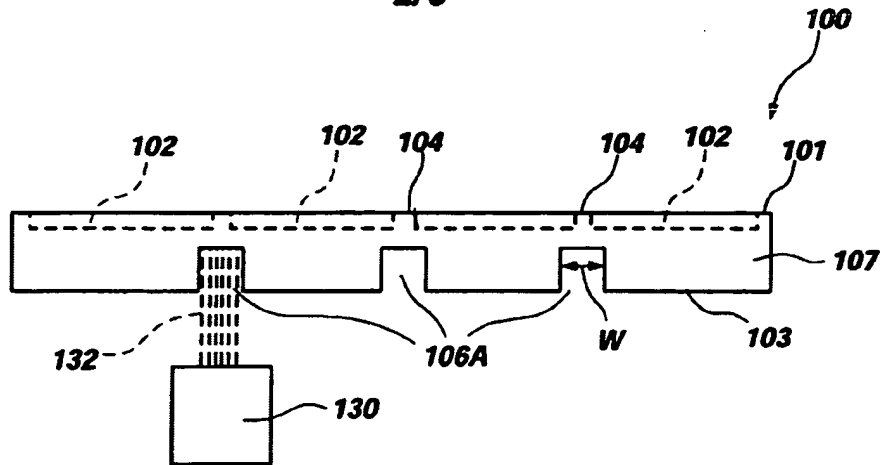


FIG. 4

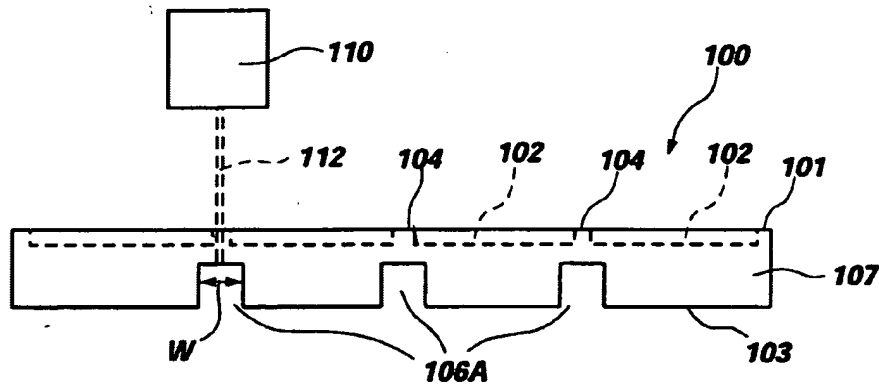


FIG. 5

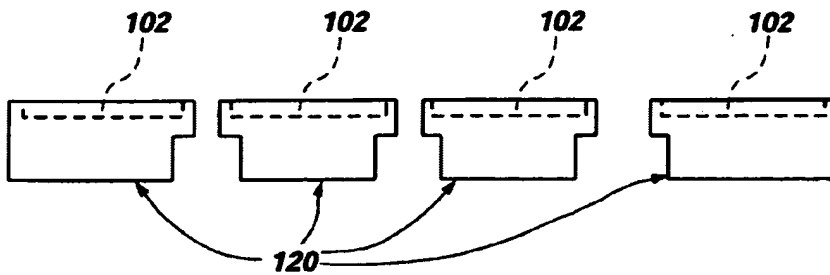


FIG. 6

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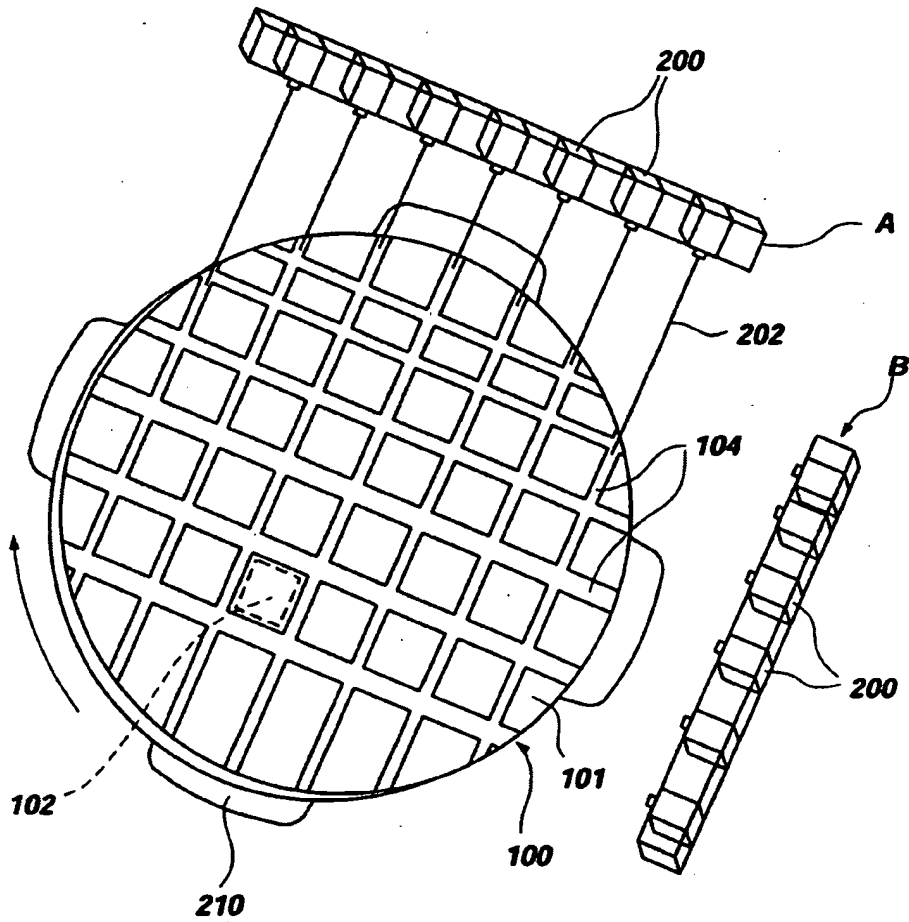


FIG. 7

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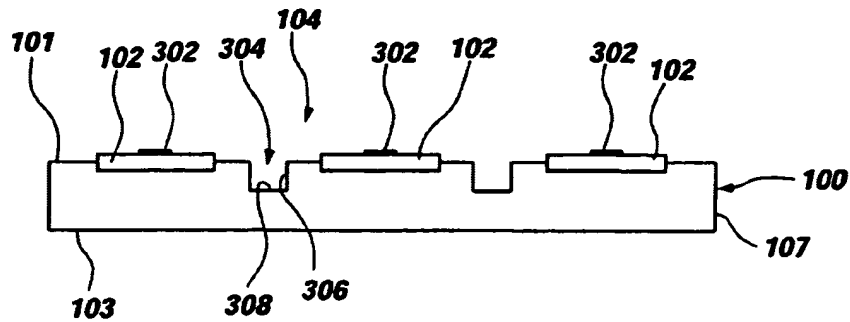


FIG. 8

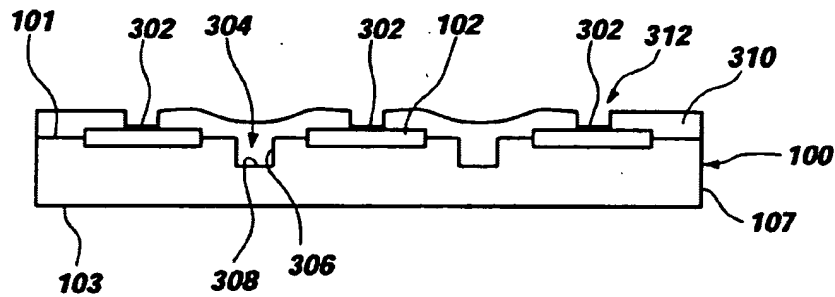


FIG. 9

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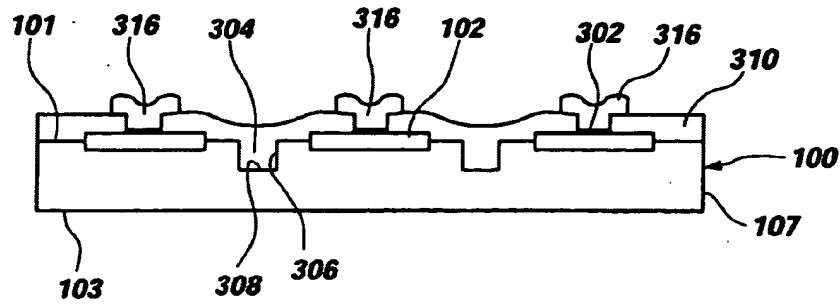


FIG. 10

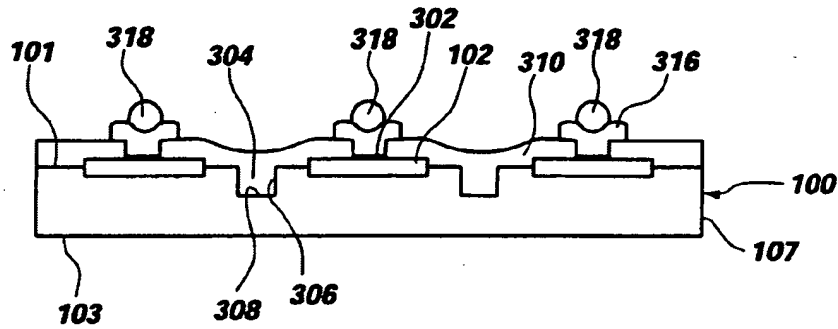


FIG. 11

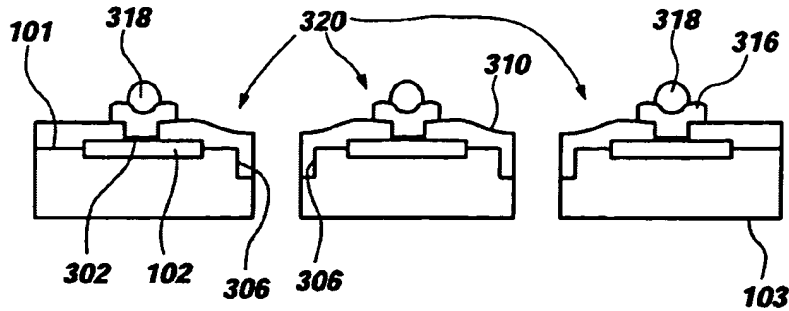


FIG. 12

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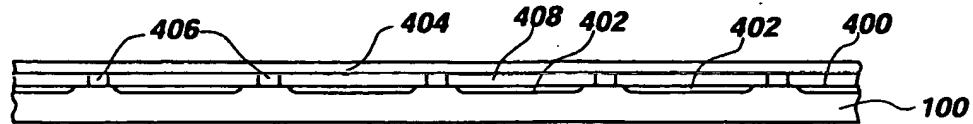


FIG. 13A

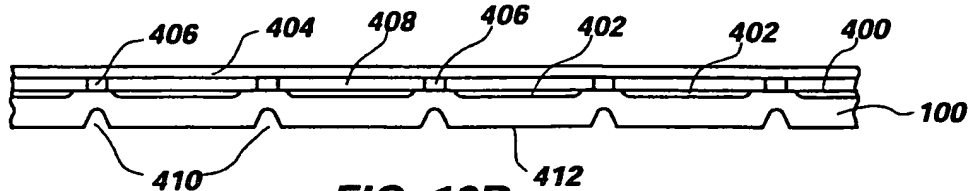


FIG. 13B

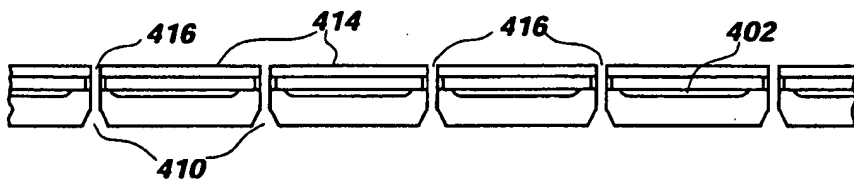


FIG. 13C

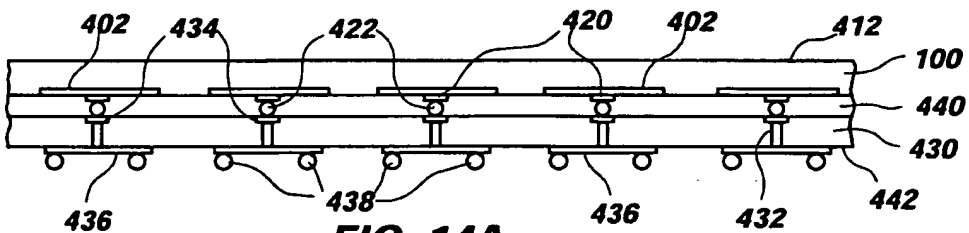


FIG. 14A

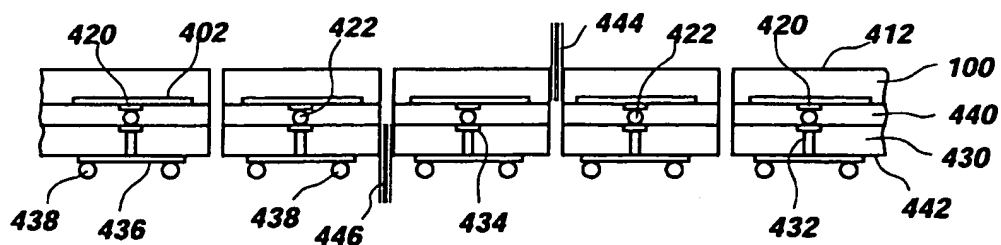


FIG. 14B

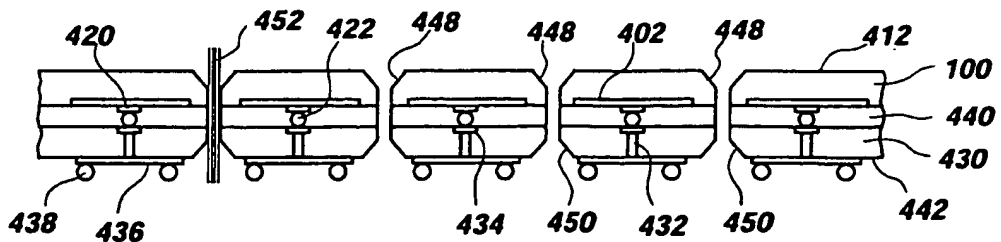


FIG. 14C